

**REMARKS**

Applicants respectfully requests consideration of the subject application as amended herein. This Amendment is submitted in response to the Office Action mailed on April 21, 2008.

**Support for Claim Limitations**

The Examiner states that in the previous Response, "Applicants have not provided a showing of support for the new limitations, in the context of the claimed invention, in the specification." The previous Response mailed on September 25, 2008 includes claim 1 amended as follows:

1. (Currently Amended) A computer-implemented method for creating a digital model of an object, the method comprising:  
receiving one or more behavioral parameters associated with each design feature of the object from a user, the object having a body represented by a predefined set of body partitions;  
determining, based on the behavioral parameters and without user involvement, which body partitions from the predefined set correspond to individual a  
~~correspondence between each design features and one or more body partitions within a predefined set of body partitions composing a body of the object;~~  
assigning, without user involvement, [[a]] contributing volumes created by the  
~~each design features to each of the one or more corresponding body partitions; [[and]]~~  
computing the digital model of the object using contributing volumes of each design feature of the object ~~to create the digital model of the object; and~~  
creating a design of the object using the computed digital model.

With respect to the limitation "the object having a body represented by a predefined set of body partitions," it is fully supported by the Specification. For example, paragraph [0030] states as follows:

[0030] In one embodiment, the modeling is performed using a functional object representation (FOR) approach. Specifically, the body of a product being modeled is presented as a predefined set of body partitions. ....

With respect to the limitation "determining, ... without user involvement, which body partitions from the predefined set correspond to individual design features of the object," it is

fully supported by the Specification. For example, paragraph [0059] states as follows:

[0059] User input processor 502 is responsible for receiving behavioral parameters selected by the user for each design feature and determining a correspondence between the behavioral parameters and body partitions. In one embodiment, a correspondence between a body partition and one or more behavioral parameters exists if a design feature creates a volume type associated with this body partition.

With respect to the limitation "assigning, without user involvement, contributing volumes created by the design features to corresponding body partitions," it is fully supported by the Specification. For example, paragraph [0060] states as follows:

[0060] Volume distributor 504 is responsible for assigning volumes created by each design feature to corresponding body partitions. Depending on the design of the product being modeled, some body partitions may have volumes from one or more design features while others may have no contributing volumes.

With respect to the limitation "creating a design of the object using the computed digital model," it is also fully supported by the Specification. For example, paragraphs [0064] and [0067] state as follows:

[0064] Figure 6 is a flow diagram of a process 600 for designing products using functional object representation (FOR), according to one embodiment of the present invention. ....

[0067] Afterwards, at processing block 610, processing logic computes the digital model of the product using contributing volumes of each design feature of the product. Subsequently, the user may request to modify an existing design feature or add a new design feature. Then, processing logic will reassign the contributing volumes according to this change and re-compute the digital model of the product. Accordingly, a designer can implement and change design elements at any stage in the design process, regardless of the order of operation.

Accordingly, the new limitations of claim 1 are fully supported by the Specification. Independent claims 15, 29 and 30 include the limitations similar to those discussed above with respect claim 1. Therefore, the portions of the Specification that show support for the new limitations of claim 1 provide support for the new limitations of claim 15, 29 and 30 as well.

In view of the above, Applicants respectfully submit that the pending claims are in condition for allowance.

If the Examiner determines that prompt allowance of these claims could be facilitated by a telephone conference, the Examiner is invited to contact Marina Portnova at (408) 720-8300.

**Petition For Extension of Time**

Applicants respectfully request an extension of time in which to respond to the Office Action mailed April 21, 2008. Please charge the Deposit Account No. 02-2666 for any extension fee(s) incurred for this response.

**Deposit Account Authorization**

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due. Furthermore, if an extension is required, then Applicant hereby requests such extension.

Respectfully submitted,

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Dated: August 21, 2008

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